DRAFT-SUDJECT TO

WORKSHEET FOR HAZARDOUS WASTE SITE RANKING MODEL

CHANGE

153431

GENERAL

has Copy

Site name and location: Cahokia / Dead Creek

St Clair Co: Sauget, I

Date(s) of site scoring: 2/16 - 2/17/62

Primary source(s) of information (e.g., EPA region, state, FIT, etc.):

JEPA file - Cahokia / Dead Creak Genoval file

JEPA Report. "A Preliminary Hydrogeologic Investigation in the

Northern Forton of Dead Creak & Vicinity" Rom St John (4/81)

Factors not scored (assigned 0 for additive and 1 for multiplicative) due to insufficient information:

Waste aranhy - could estimate the dipth of contaminated soil, larger of creak but in hydrogentatic study, along with a very width - because contaminated soil would be remove in deem up aparatum of the Sw intolies from Mississippi win 3 mi downs became Air samply needed

Comments or qualifications:

- Need " Air quality work deme (may or many not be fruitful)
- Need further GW study in onea to determine depth of contamination, determine backake plumes, etc.
- Need Haz'ardous waste quantity (do not think it is possible due
- Creek does not always flow due to road construction upstream: see IEPA report of 4/61 St John's
 - if possible take further our samples up 4 down stream

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GROUND WATER PATHWAY

1 Mensured Level or Evidence of Release

corresponds to housely of sources in the characteristics in the characteristics and the characteristics are characteristics.

Describe substance(s) and nature of release:

(PCB's, Chloro amplitue, Dichlorobenzene, Copper, Maganese, Lead,

Cycloherane, Chlorophenol, aliphahe hydrocarbone, Silver, nickel,

arsenic, cod mium - Found in monitoring wells placed by IEPA

Describe method of measurement or observation:

Lab analysis in report "A Preliminary Hydrogeologic Invectorian in the

Northern fortion of Dead Creek & Vicinity" by Ran St John - 4/81

Analysis pp 34-39

2 Depth to Aquifer of Concern

Describe/name aquifer of concern:

Why is above aquifer of concern?

Depth and how determined, including sources:

Net Precipitation

Net precipitation and how determined, including source(s):

Premeability of Unsaturated Zone

Soil type(s) in unsaturated zone:

Permeability and how determined, including source(s):

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3 Containment

Method of waste management (e.g., surface impoundment, landfill, etc) of extreme case:

Describe basis for selecting extreme case:

Describe method(s) of waste or leachate containment for above extreme case:

Cite source(s) of information:

6 Physical State

Physical state of waste and source of information:

Liquid - 5+ John's report

Persistence

Most persistent compound subject to transport via ground water:

Basis for selecting compound, including source(s):
Lab Analysis from Hzo 9 soil samples taken in the cure
of concern

Basis for selecting persistence rating score:

Mike .pansistence report

Toxicity/Infectiousness

Toxic materials subject to transport via ground water and Sax or NFPA level for each:

PCB - Sax's toxicity

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Cite source(s) of information indicating toxics present on site:

Infectious materials present on site and source(s) of information:

Basis for selecting CDC classification of infectious materials:

7 Total Waste Quantity

Total waste quantity present, including unit of measurement (e.g., tons, cubic yards drums): 0-3ft deep in contaminated sail 2000 ft laught of creek wed

Basis for estimating or computing quantity, including source(s) of information: from St John's report - dapth of combanished soil langth i dapth from topo map(if you use soil as waste)

UNKNOWN - AREA HAS BEEN USED AS SEVERAL LAWOFILLS SINCE 1937

8 Ground Water Use

Use(s) of aquifer of concern and source(s) of information:

Industrial use. It water Survey

Hissies, pp. River another source (:. limited Hzu sources)

Distance to Nearest Well Downgradient

Distance to nearest well downgradient:

Adjacent - Momento well upgradient to See Flow but causes come of depression in water table, thus contaminated well How was downgradient direction(s) established, including source(s) of information:

I'L State water Survey (ISWS)

w to sw

How was distance determined?:

TSUB

Is nearest building known to be using ground water? Source of information:

No, rut researt black.

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Is nearest well known to be drawing from aquifer of concern? Source of information: yes, 7 sws

Population Served by Ground Water Within 3-Mile Radius

Population served with 3-mile radius: 14

How was population counted or computed, including source(s) of information: Drinking well was drilled for Industrial Track Supply E. St. Louis 1960 for ISWS

Is population known: to be served by aquifer of concern? Source of information:

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SURFACE WATER PATHWAY

1 Measured Level or Evidence of Release

Describe substances and nature of release:

Contaminants deposited denethy into creek waters - Lab

analysis of creek downstream & centain company holdy

pands show contamination of the same dype

Describe method of measurement or observation:

St. John's report of 4/81 pruniously acted

2 Site Slope and Terrain

Computation of slope and description of points of measurement:

Cite source(s) of information (topo maps, etc.):

1-Year 24-Hour Rainfall

Amount of rainfall and source of information: The Market Market

Distance to Surface Water

Distance and description of points of measurement:

Cite Bource(s) of information:

Flood Potential

In what flood plain, if any, is the site located?:

Cite source(s) of information:

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3 Containment

Describe basis for selecting extreme waste management case:

Describe method(s) of waste or leachate containment for extreme case:

Cite source(s) of information:

8 Surface Water Use

Use(s) of downstream surface water and sources of information:

Parasher - children plan in creak

Critical Habitats

Location and descritpion of downstream critical habitat; if any: 100 yr floodplain !

Distance and description of points of measurement:

Cite source(s) of information:

uses floodprine maps

Population Served By Surface Water with Water Intake Within 3 Miles Downstream from Site

Population served by water intake(s): O

Is surface water within 3 miles in a tidal estuary?: No

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Description(s) and location(s) of intake(s) and correspond population served by each:

How was population counted or computed?:

Cite source(s) of water-intake and population information:

IL. Public Water Supply

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AIR PATHWAY

1 Evidence of Release

Describe contaminant and monitoring which reveal that background levels have been exceeded?:

No air Kalmphing deme

Cite source(s) of information:

TEPA fle has pictures of smoldery creak bad, but

No au quality date

3 Physical State/Volatility

Physical state of waste and source(s) of information:

Vapor pressure of waste and source(s) of information:

Reactive substances and source(s) of information:

Dichlorobenseure from NFAA= & React.

NFPA level for each and basis of selection:

Incompatability

Incompatible substances which are present and source(s) of information:

None that were found in analysis - shill unknowns

Pichnes of smoldering creak had in IEPA file

Basis for selecting incompatibility score:

St. John's Report 4/8/

IEPA file

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5 Distance to Nearest Population

Distance and description of points of measurement:

Win M - houses adjacent to creek on the SE

Cite source(s) of information:

Topo map 5 4/61 DEPA report (cited)

Population Within 1-Mile Radius

Population and how counted or computed:

>10,000: towns of Cahoka, Centreville, & Souget,

w/in imile radius

Land Use

()

As adjust that had on west side

Ind:

If with a kindle

Distance to determining land use:

Two map, DEPA photo
Cite source(s) of information:

. IEPA photo 9 files